



INSTITUTE OF SMART STRUCTURES AND SYSTEMS

ISSS foundation course in MEMS design

ISSS is initiating the foundation courses for the benefit of students, in the relevant areas of MEMS by the experts / experienced professors. This will be useful for the interested faculty members who would like to carry out the research in the area. To start with, MEMS Design Course by Prof GK AnanthaSuresh, Indian Institute of Science (IISc.), Bangalore. As part of this course, hands-on experience with MATLAB & COMSOL multiphysics software for device simulation will be taught which enables them to design MEMS devices for sending it for micro-foundry processes for fabrication. Recently ISSS conducted the community chip activity where 8 institutions across the country participated. The course can be viewed online anytime at the ISSS online portal to which access will be given on completion of registration. The assignments given should be submitted online. The details of the course are as follows.

Syllabus

Topic	Lecture hours	Hands-on hours
Mechanical suspensions for MEMS	6	3
Electrothermal microactuators	6	3
Capacitive sensing	4	2
Electrostatic actuators	6	3
Piezo-resistive sensing	4	2
Two tests 1.5 hours each		
Total hours: 26 lectures + 13 hands-on sessions + 3 tests + 18 Hrs Assignment = 60 hours		

Course instructor:

Prof. G K Ananthasuresh
Mechanical Engineering, IISc

Course coordinator:

Prof. Veda S.Nagaraja, NMIT
Prof. Lakshmi S, MSRIT

Date and timing

Duration: March 16th to 30th
November 2020

Online link: <http://isssonline.in>

Application link:

<https://tinyurl.com/uyvrzhq>

URL for registration for this course will be provided on completion of the registration.

Last Date to receive application: 12th March 2020

Non refundable fees :

Students: Rs. 1500

ISSS Student members: Rs.1250

Others: Rs. 3000

ISSS members (other than students): Rs.2500

Online Payment Details:

Account name: Institute of Smart Structures – Systems

Account No.: 0683101018513

Canara Bank, Indian Institute of Science Bangalore Branch

IFSC: Code: CNRB0000683

MICR Code 560015023

Contact : isss.forum@gmail.com